```
RRRRRRRRRRR      UUU         UUU  NNN         NNN    OOOOOOOOO     FFFFFFFFFFFFFFF    FFFFFFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN         NNN   OOOOOOOOO      FFFFFFFFFFFFFFF    FFFFFFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN         NNN   OOOOOOOOO      FFFFFFFFFFFFFFF    FFFFFFFFFFFFFFF
RRR     RRR      UUU         UUU  NNN         NNN  OOO      OOO    FFF                FFF
RRR     RRR      UUU         UUU  NNN         NNN  OOO      OOO    FFF                FFF
RRR     RRR      UUU         UUU  NNN         NNN  OOO      OOO    FFF                FFF
RRR     RRR      UUU         UUU  NNNNNN      NNN  OOO      OOO    FFF                FFF
RRR     RRR      UUU         UUU  NNNNNN      NNN  OOO      OOO    FFF                FFF
RRR     RRR      UUU         UUU  NNNNNN      NNN  OOO      OOO    FFF                FFF
RRRRRRRRRRR      UUU         UUU  NNN  NNN    NNN  OOO      OOO    FFFFFFFFFFF        FFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN  NNN    NNN  OOO      OOO    FFFFFFFFFFF        FFFFFFFFFFF
RRRRRRRRRRR      UUU         UUU  NNN  NNN    NNN  OOO      OOO    FFFFFFFFFFF        FFFFFFFFFFF
RRR  RRR         UUU         UUU  NNN    NNNNN     OOO      OOO    FFF                FFF
RRR   RRR        UUU         UUU  NNN    NNNNN     OOO      OOO    FFF                FFF
RRR    RRR       UUU         UUU  NNN     NNNNN    OOO      OOO    FFF                FFF
RRR     RRR      UUU         UUU  NNN        NNN   OOC      OOO    FFF                FFF
RRR      RRR     UUU         UUU  NNN        NNN   OOO      OOO    FFF                FFF
RRR      RRR     UUU         UUU  NNN        NNN   OOO      OOO    FFF                FFF
RRR       RRR    UUUUUUUUUUUUUUU  NNN        NNN    OOOOOOOOO      FFF                FFF
RRR       RRR    UUUUUUUUUUUUUUU  NNN        NNN    OOOOOOOOO      FFF                FFF
RRR       RRR    UUUUUUUUUUUUUUU  NNN        NNN    OOOOOOOOO      FFF                FFF
```

```
   SSSSSSSS   EEEEEEEEEE   TTTTTTTTTT   DDDDDDD      AAAAAA     TTTTTTTTTT
   SSSSSSSS   EEEEEEEEEE   TTTTTTTTTT   DDDDDDDD     AAAAAA     TTTTTTTTTT
 SS           EE                TT      DD     DD   AA    AA        TT
 SS           EE                TT      DD     DD   AA    AA        TT
 SS           EE                TT      DD     DD   AA    AA        TT
 SS           EE                TT      DD     DD   AA    AA        TT
   SSSSSS     EEEEEEEE          TT      DD     DD   AA    AA        TT
   SSSSSS     EEEEEEEE          TT      DD     DD   AA    AA        TT
         SS   EE                TT      DD     DD   AAAAAAAAAA      TT
         SS   EE                TT      DD     DD   AAAAAAAAAA      TT
         SS   EE                TT      DD     DD   AA    AA        TT
         SS   EE                TT      DD     DD   AA    AA        TT
 SSSSSSSS     EEEEEEEEEE        TT      DDDDDDDD    AA    AA        TT      ....
 SSSSSSSS     EEEEEEEEEE        TT      DDDDDDD     AA    AA        TT      ....
                                                                          ....
                                                                          ....

 LL           IIIIII      SSSSSSSS
 LL           IIIIII      SSSSSSSS
 LL             II      SS
 LL             II      SS
 LL             II      SS
 LL             II        SSSSSS
 LL             II        SSSSSS
 LL             II              SS
 LL             II              SS
 LL             II              SS
 LL             II              SS
 LLLLLLLLLL   IIIIII      SSSSSSSS
 LLLLLLLLLL   IIIIII      SSSSSSSS
```

```
    1    0001   0 %TITLE 'Set date to a user-specified date'
    2    0002   0 MODULE SETDAT (
    3    0003   0                 IDENT = 'V04-000'
    4  P 0004   0 %BLISS32[,
    5  P 0005   0           ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)
    6    0006   0           ]
    7    0007   0                 ) =
    8    0008   1 BEGIN
    9    0009   1 !
   10    0010   1 !*******************************************************************
   11    0011   1 !*                                                                 *
   12    0012   1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                         *
   13    0013   1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.          *
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   19    0019   1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
   20    0020   1 !*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
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   22    0022   1 !*                                                                 *
   23    0023   1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
   24    0024   1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
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   26    0026   1 !*                                                                 *
   27    0027   1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
   28    0028   1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.         *
   29    0029   1 !*                                                                 *
   30    0030   1 !*                                                                 *
   31    0031   1 !*******************************************************************
   32    0032   1 !
   33    0033   1 !++
   34    0034   1 ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
   35    0035   1 !
   36    0036   1 ! ABSTRACT: Sets the date to a user-specified date.
   37    0037   1 !
   38    0038   1 !
   39    0039   1 ! ENVIRONMENT: Transportable
   40    0040   1 !
   41    0041   1 ! AUTHOR: R.W.Friday     CREATION DATE: April, 1979
   42    0042   1 !
```

```
  44      0043  1 %SBTTL 'Revision History'
  45      0044  1 !
  46      0045  1 ! MODIFIED BY:
  47      0046  1 !
  48      0047  1 !        002     REM00002      Ray Marshall    07-Mar-1983
  49      0048  1 !                Global edit of all modules. Updated module names, idents,
  50      0049  1 !                copyright dates. Changed require files to BLISS library.
  51      0050  1 !
  52      0051  1 !--
```

```
 54          0052  1  %SBTTL 'Module Level Declarations'
 55          0053  1  !
 56          0054  1  ! TABLE OF CONTENTS:
 57          0055  1  !
 58          0056  1  !
 59          0057  1  ! INCLUDE FILES:
 60          0058  1  !
 61          0059  1
 62          0060  1  LIBRARY 'NXPORT:XPORT';                    ! XPORT Library
 63          0061  1  REQUIRE 'REQ:RNODEF';                      ! RUNOFF variant definitions
 64          0192  1
 65        U 0193  1  %IF DSRPLUS %THEN
 66        U 0194  1  LIBRARY 'REQ:DPLLIB';                      ! DSRPLUS BLISS Library
 67          0195  1  %ELSE
 68          0196  1  LIBRARY 'REQ:DSRLIB';                      ! DSR BLISS Library
 69          0197  1  %FI
 70          0198  1
 71          0199  1  !
 72          0200  1  ! MACROS:
 73          0201  1  !
 74          0202  1  MACRO
 75        M 0203  1      DOPARM (P,MAX) =
 76        M 0204  1          !Process this parameter only if it was specified.
 77        M 0205  1          IF  .NMLST_DESCR (P) NEQ NM_NULL
 78        M 0206  1          THEN
 79        M 0207  1              BEGIN
 80        M 0208  1              IF  .NMLST_DESCR (P) EQL NM_PLUS
 81        M 0209  1                              OR
 82        M 0210  1                  .NMLST_DESCR (P) EQL NM_MINUS
 83        M 0211  1              THEN
 84        M 0212  1                  TEMP_DATIM [3-P] = .TEMP_DATIM [3-P] + .NMLST_VALUE (P)
 85        M 0213  1              ELSE
 86        M 0214  1                  TEMP_DATIM [3-P] = .NMLST_VALUE (P);
 87        M 0215  1
 88        M 0216  1              !Check for negative or GTR MAX value
 89        M 0217  1              IF  .TEMP_DATIM [3-P] LEQ 0
 90        M 0218  1                          OR
 91        M 0219  1                  .TEMP_DATIM [3-P] GTR MAX
 92        M 0220  1              THEN
 93        M 0221  1                  !Illegal number value.
 94        M 0222  1                  BEGIN
 95        M 0223  1                  ERMA (RNFINM, FALSE);
 96        M 0224  1                  RETURN;
 97        M 0225  1                  END
 98          0226  1              END                    %;
 99          0227  1  !
100          0228  1  ! EQUATED SYMBOLS:
101          0229  1  !
102          0230  1  !
103          0231  1  ! OWN STORAGE:
104          0232  1  !
105          0233  1  !
106          0234  1  ! EXTERNAL REFERENCES:
107          0235  1  !
108          0236  1
109          0237  1  EXTERNAL
110          0238  1      DATTIM : VECTOR [6],                           !Date and time.
```

```
 111   0239  1         NMLST : NUMBER_LIST;                    !GLNM returns command parameters here
 112   0240  1
 113   0241  1 !
 114   0242  1 EXTERNAL LITERAL                                !Error messages
 115   0243  1     RNFINM;
 116   0244  1
 117   0245  1 !
 118   0246  1
 119   0247  1 EXTERNAL ROUTINE
 120   0248  1     ERMA,
 121   0249  1     GLNM,
 122   0250  1     RNODAT;
 123   0251  1
 124   0252  1 !
 125   0253  1
```

SETT
V04-0

:

:

: Si
: Ru
: El
: Li
: Le
: Me
: Co

```
127  0254  1  %SBTTL 'SETDAT  --'
128  0255  1  GLOBAL ROUTINE setdat (handler_code) : NOVALUE =
129  0256  1
130  0257  1  !++
131  0258  1  ! FUNCTIONAL DESCRIPTION:
132  0259  1  !
133  0260  1  !      SETDAT calls GLNM to pick up the day, month, and year, in that order.
134  0261  1  !      If the user says nothing, then the date is set to the system date.
135  0262  1  !
136  0263  1  ! FORMAL PARAMETERS:
137  0264  1  !
138  0265  1  !      HANDLER_CODE is not examined.  It is passed to this routine
139  0266  1  !      for reasons of conformity only.  It will always have the
140  0267  1  !      value H_SET_DATE.
141  0268  1  !
142  0269  1  ! IMPLICIT INPUTS:        None
143  0270  1  !
144  0271  1  ! IMPLICIT OUTPUTS:       None
145  0272  1  !
146  0273  1  ! ROUTINE VALUE:
147  0274  1  ! COMPLETION CODES:       None
148  0275  1  !
149  0276  1  ! SIDE EFFECTS:           None
150  0277  1  !
151  0278  1  !--
152  0279  1
153  0280  2      BEGIN
154  0281  2
155  0282  2      LOCAL
156  0283  2          temp_datim : VECTOR [6];
157  0284  2
158  0285  2      glnm (3);                                        !Request the day, month, and year.
159  0286  2
160  0287  2      IF   .nmlst_count EQL 0   THEN
161  0288  3          BEGIN
162  0289  3          rnodat (temp_datim);     !Get entire system date/time.
163  0290  3
164  0291  3                  !Save just the system time part.
165  0292  3
166  0293  3          dattim [0] = .temp_datim [0];                !Year
167  0294  3          DATTIM [1] = .TEMP_DATIM [1];                !Month
168  0295  3          DATTIM [2] = .TEMP_DATIM [2];                !Day
169  0296  3
170  0297  3          RETURN;
171  0298  2          END;
172  0299  2
173  0300  2      ! Assume the most complicated case: that the user is adjusting settings by
174  0301  2      ! adding/subtracting values.  Make a copy of the current time.
175  0302  2
176  0303  2      temp_datim [0] = .dattim [0];                    !Year
177  0304  2      temp_datim [1] = .dattim [1];                    !Month
178  0305  2      temp_datim [2] = .dattim [2];                    !Day
179  0306  2
180  0307  2      !Validate the day, if given
181  0308  2      doparm (1,31);                                   !First parameter can have a maximum value of 31
182  0309  2
183  0310  2      !Validate the month, if given
```

**FI

```
 184   0311  2      IF  .nmlst_count GEQ 2  THEN             !Second paramater can have a maximum value of 12
 185   0312  2          doparm (2,12);
 186   0313
 187   0314         !Validate the year, if given
 188   0315  2      IF  .nmlst_count GEQ 3  THEN             !Maximum of 9999
 189   0316  2          doparm (3,9999);
 190   0317
 191   0318         !Make computed time currend
 192   0319  2      dattim [0] = .temp_datim [0];            !Year
 193   0320  2      dattim [1] = .temp_datim [1];            !Month
 194   0321  2      dattim [2] = .temp_datim [2];            !Day
 195   0322  2
 196   0323  1      END;                                    !End of SETDAT


                         .TITLE   SETDAT Set date to a user-specified date
                         .IDENT   \V04-000\

                         .EXTRN   DATTIM, NMLST, RNFINM
                         .EXTRN   ERMA, GLNM, RNODAT

                         .PSECT   $CODE$,NOWRT,2

                              000C 00000      .ENTRY   SETDAT, Save R2,R3          ; 0255
         53 00000000G EF  9E 00002            MOVAB    DATTIM, R3
         52 00000000G EF  9E 00009            MOVAB    NMLST, R2
                   5E  18 C2 00010            SUBL2    #24, SP
                   03  DD 00013               PUSHL    #3                          ; 0285
 00000000G EF      01  FB 00015               CALLS    #1, GLNM
                   62  D5 0001C               TSTL     NMLST                       ; 0287
                   0C  12 0001E               BNEQ     1$
                   5E  DD 00020               PUSHL    SP                          ; 0289
 00000000G EF      01  FB 00022               CALLS    #1, RNODAT
                 0092  31 00029               BRW      14$                         ; 0293
                   6E  63 7D 0002C 1$:        MOVQ     DATTIM, TEMP_DATIM          ; 0303
      08 AE    08 A3  D0 0002F               MOVL     DATTIM+8, TEMP_DATIM+8      ; 0305
      50       00A4 C2 D0 00034               MOVL     NMLST+164, R0               ; 0308
                   1E  13 00039               BEQL     5$
                02 50  D1 0003B               CMPL     R0, #2
                   05  13 0003E               BEQL     2$
                03 50  D1 00040               CMPL     R0, #3
                   07  12 00043               BNEQ     3$
   08 AE    04 A2 C0 00045 2$:                ADDL2    NMLST+4, TEMP_DATIM+8
                   05  11 0004A               BRB      4$
   08 AE    04 A2 D0 0004C 3$:                MOVL     NMLST+4, TEMP_DATIM+8
                   5B  15 00051 4$:           BLEQ     13$
          1F 08 AE  D1 00053               CMPL     TEMP_DATIM+8, #31
                   55  14 00057               BGTR     13$
                02 62  D1 00059 5$:           CMPL     NMLST, #2                   ; 0311
                   25  19 0005C               BLSS     9$
          50    00A8 C2 D0 0005E               MOVL     NMLST+168, R0              ; 0312
                   1E  13 00063               BEQL     9$
                02 50  D1 00065               CMPL     R0, #2
                   05  13 00068               BEQL     6$
                03 50  D1 0006A               CMPL     R0, #3
                   07  12 0006D               BNEQ     7$
   04 AE    08 A2 C0 0006F 6$:                ADDL2    NMLST+8, TEMP_DATIM+4
```

```
                                          05  11 00074          BRB     8$
                        04      AE      08 A2  D0 00076 7$:     MOVL    NMLST+8, TEMP_DATIM+4
                                          31  15 0007B 8$:      BLEQ    13$
                                0C      04 AE  D1 0007D         CMPL    TEMP_DATIM+4, #12
                                          2B  14 00081          BGTR    13$
                                       03 62  D1 00083 9$:      CMPL    NMLST, #3
                                          36  19 00086          BLSS    14$
                                     50 00AC C2  D0 00088        MOVL    NMLST+172, R0
                                          2F  13 0008D          BEQL    14$
                                       02 50  D1 0008F          CMPL    R0, #2
                                          05  13 00092          BEQL    10$
                                       03 50  D1 00094          CMPL    R0, #3
                                          06  12 00097          BNEQ    11$
                             6E      0C A2  C0 00099 10$:     ADDL2   NMLST+12, TEMP_DATIM
                                          04  11 0009D          BRB     12$
                             6E      0C A2  D0 0009F 11$:     MOVL    NMLST+12, TEMP_DATIM
                                          09  15 000A3 12$:      BLEQ    13$
              0000270F  8F            6E  D1 000A5         CMPL    TEMP_DATIM, #9999
                                          10  15 000AC          BLEQ    14$
                                       7E  D4 000AE 13$:      CLRL    -(SP)
                         00000000G 8F  DD 000B0         PUSHL   #RNFINM
              00000000G EF            02  FB 000B6         CALLS   #2, ERMA
                                          04 000BD          RET
                        63           6E  7D 000BE 14$:      MOVQ    TEMP_DATIM, DATTIM
              08        A3      08      AE  D0 000C1         MOVL    TEMP_DATIM+8, DATTIM+8
                                          04 000C6          RET
```

```
; Routine Size:  199 bytes,    Routine Base: $CODE$ + 0000
```

```
;    197          0324 1
;    198          0325 1 END                                                  !End of module
;    199          0326 0 ELUDOM
```

```
                           PSECT SUMMARY

     Name                   Bytes                        Attributes

   $CODE$                        199  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)



                           Library Statistics

                               --------- Symbols --------     Pages       Processing
     File                       Total    Loaded   Percent     Mapped      Time

   _$255$DUA28:[SYSLIB]XPORT.L32;1          590        0         0          252        00:00.1
   _$255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1    1248       11         0           86        00:00.3
```

M 4

```
;                                       COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:SETDAT/OBJ=OBJ$:SETDAT MSRC$:SETDAT/UPDATE=(ENH$:SETDAT)

; Size:              199 code + 0 data bytes
; Run Time:               00:06.7
; Elapsed Time:       00:17.4
; Lines/CPU Min:        2906
; Lexemes/CPU-Min: 27548
; Memory Used:   69 pages
; Compilation Complete
```

STD
LIS

SUBST
LIS

SETDAT
LIS

STC
LIS

TITLES
LIS

STYLE
LIS

SCANT
LIS

TOPPAG
LIS

STKFRM
LIS

SKIPL
LIS

SUBPAG
LIS

SCL
LIS

SKPSEP
LIS

STHL
LIS

SETTIM
LIS